

11- 13 May, 2023 - Reception and Conference Center, Rabat, MOROCCO

Innovative road operation concepts, for safe and sustainable mobility

ORGANIZED BY







الجمعية المغزبية الدانعة لمؤتمرات الطرق L'Association Marocaine Permanente des Congrès de la Route The Permanent Moroccan Association of Road Congresses

Innovative road operation concepts, for safe and sustainable mobility

Rabat 11-13 May, 2023



1. THE PIARC PROGRAM AND INTERNATIONAL SEMINARS

PIARC (the World Road Association) is a non-political, non-profit organization whose mission includes the organization of forums, the dissemination of best practice and the promotion of efficient tools for road and road transport decision support.

As part of its work, and since 1999, the Association has been organizing a program of international seminars that strengthens its presence in the world, its consideration of the needs of developing countries and countries in transition, and makes the results of the Association's work more widely known in these countries.



2. TECHNICAL COMMITTEE 2.4

ROAD NETWORK OPERATIONS / INTELLIGENT TRANSPORT SYSTEMS

The capacity of the road network is not fully utilized, as traffic demand is concentrated on only small sections of the road network. **Technical Committee 2.4 "Road Network Operations and Intelligent Transport Systems"** focuses on how new mobilities, new technologies and digitalization are integrated into the operation of the road network. This TC studies the concept of mobility as a service (MaaS). It will also update the manual on Road Network Operations and Intelligent Transport Systems (RNO / ITS).

Issues:

- **2.4.1** Opportunities offered by new forms of mobility in the operation of road networks
- 2.4.2 Optimizing road operations and performance through new technologies and digitalization
- 2.4.3 Sharing Road Network Operations and ITS Knowledge through a Dedicated Online PIARC Resource



3. OBJECTIVES OF THE SEMINAR

Innovative concepts of operation, also called ITS, are taking place in a global context of road traffic congestion on the one hand and the development of new information technologies on the other. Therefore, these could provide important tools to help tackle new challenges imposed by public transport policies, and which can be summarized in "an efficient, clean and safe transport", indeed, these innovative concepts:

- Contribute to increased transportation efficiency. Real-time traffic and travel information improves transportation management and facilitates the interaction between modes, thereby encouraging intermodality;
- Play a key role in the greening of transportation by introducing the concept of environmentally friendly "green transportation corridors";
- Road safety and security applications can save lives. Driver assistance and other safety, navigation, tracking and tracing devices all play a role in promoting transportation safety.

This seminar is intended to promote discussion and provide insight into global initiatives regarding the advancement of road network operations through new concepts including ITS.



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4. WHO SHOULD PARTICIPATE IN THE SEMINAR?

The international seminar "Innovative Road Operation Concepts, for Safe and Sustainable Mobility" is intended for road administrations, private sector technical and technological service providers, road, highway and transport managers, transport operators, road traffic and road safety managers, consultants, road network administrators, local and international academics, researchers and students, world experts in other fields of experience related to the above mentioned topics.



5. GENERAL INFORMATION AND LOCATION OF THE SEMINAR

The seminar will be held at the Reception and Conference Center in Rabat, Morocco from May 11 to 13, 2023.

Rabat: The administrative capital of the Kingdom of Morocco, is a coastal city, located on the Atlantic coast and on the left bank south of the mouth of the river Bouregreg, opposite the city of Salé.

It's pleasant climate all year round, its privileged location on the edge of the Atlantic and its exceptionally rich history make Rabat a leading tourist destination.

It benefits from a unique historical heritage, reflecting the diversity of heritages that have shaped the two banks of the Bouregreg over the centuries.

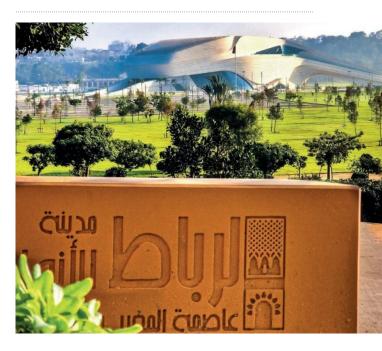


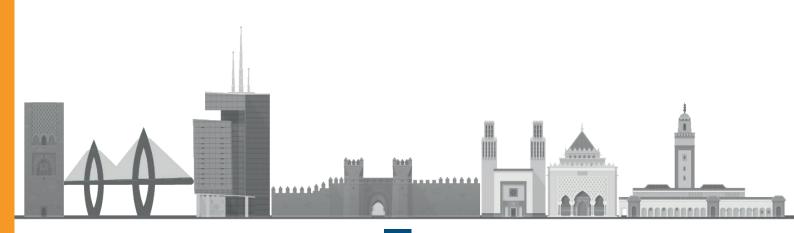
6. AGENDA AND LANGUAGES OF THE SEMINAR

The seminar will be divided into several sessions and will integrate several themes included in the preliminary program. The sessions will be organized along the first two days of the seminar. Each session will include several presentations by members of the technical committee and also by experts from Morocco and other countries around the world. Two round tables are also planned. A tour will be scheduled on the third day.

Languages of the Congress

The languages used in the seminar will be English and French with simultaneous translation.





RABAT

INTERNATIONAL SEMINAR

Innovative road operation concepts, for safe and sustainable mobility



11-13 May, 2023 Reception and Conference Center, Rabat, MOROCCO

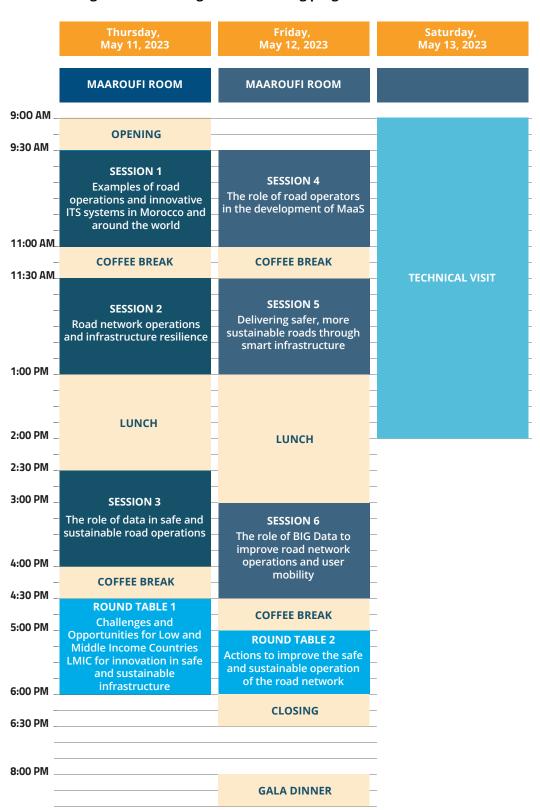
PIARC-MEE-PMARC

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The seminar will be organized according to the following program:



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Rabat 11-13 May, 2023



THURSDAY, MAY 11, 2023

8:30 - 9	9:00 AM		Welcoming and Registration of Par	ticipants		
9:00 - 9:30 AM			Inaugural session			
9:00 AM	9:10 AM	00:10	Welcome Speech from Morocco	Nizar Baraka	Minister of Equipment and Water, Honorary President of the AMPCR - Morocco	
9:10 AM	9:20 AM	00:10	Welcome Speech from PIARC	Nazir Alli	President of PIARC - South Africa	
9:20 AM	9:30 AM	00:10	Introduction to the seminar by the president of TC 2.4	Valentina Galasso	Director at Deloitte Consulting & Chair of TC 2.4 - Italy	
	CECCION 1					

9:30 - 11:00 AM			SESSION 1 Examples of road operations and innovative ITS systems in Morocco and around the world		
9:30 AM	9:35 AM	00:05	Introduction & moderation	Nabil Benazzouz	FMCI Chairman and Director of IDAFA - Morocco
9:35 AM	9:50 AM	00:15	Rabat Salé Tram Experience	Loubna BOUTALEB	Director of the Rabat Region Mobility Company (RRM) - Morocco
9:50 AM	10:05 AM	00:15	Probe vehicle data - Elaboration of a national strategy to complement traditional sensor data	Sylvain Belloche	WG Leader of TC 2.4 - France
10:05 AM	10:20 AM	00:15	Operation of the road network in Tunisia and innovative perspectives	Mohamed Zmerli	Service Head- Ministry of Equipment and Housing & member TC 2.4 - Tunisia
10:20 AM	10:35 AM	00:15	Review of the motorway toll system: Extension of the closed system, construction of a new generation of toll stations, Careful demolition of old stations	Sikkal Omar	Director of ADM PROJET - Morocco
10:35 AM	10:55 AM	00:20	Q&A		
10:55 AM	11:00 AM	00:05	Session conclusions from the chair of the session		

11:00 - 11:30 AM Tea / Coffee break

11:30 AM - 1:00 PM			SESSION 2 Road network operations and infrastructure resilience			
11:30 AM	11:35 AM	00:05	Introduction & moderation	Valentina Galasso	Director at Deloitte Consulting & Chair of TC 2.4 - Italy	
11:35 AM	11:50 AM	00:15	Road operation in Morocco: status and development prospects	Abdelkebir El Alouaoui	Director of Road Works and Operation - Morocco	
11:50 AM	12:05 PM	00:15	Road network resilience and vulnerability assessment	Clarissa Han	Chief Technology Leader, Network Sustainability and Resilience at NTRO & WG Leader of TC 2.4 - Australia	
12:05 PM	12:20 PM	00:15	RNO and ITS in South Africa	Gail Bester	Project Manager at SANRAL & Member of TC 2.4 - South Africa	
12:20 PM	12:35 PM	00:15	Improving the resilience of motorway infrastructure using biological engineering techniques	Enneddam Nora	Head of Sustainable Development and Corporate Social Responsibility - ADM - Morocco	
12:35 PM	12:55 PM	00:20	Q&A			
12:55 PM	1:00 PM	00:05	Session conclusions from the chair of the session			

1:00 - 2:30 PM Lunch

2:30 - 4:15 PM			SESSION 3			
2:30 - 4	H: IS PIVI		The role of data in safe and sustainable road operations			
2:30 PM	2:35 PM	00:05	Introduction & moderation	Bennacer Boulaajoul	Director of NARSA - Morocco	
2:35 PM	2:50 PM	00:15	Role of data in improving road safety	Hicham Diouri	Head of the Road Safety Monitoring and Expertise Division - NARSA - Morocco	
2:50 PM	3:05 PM	00:15	Aerial drone data to understand road users behavior for safe and sustainable mobility	Martin Margreiter	Head of Research Group Automated Traffic at TUM / Partner at Mobility Partners & member of TC 2.4 - Germany	
3:05 PM	3:20 PM	00:15	New technologies for the collection of essential data for road operation	Boukhris Sabri	Project Manager Sterela - Expert in Road Traffic and WIM Systems - Tunisia	
3:20 PM	3:35 PM	00:15	Capital role of machine learning in the mobility sector	Mouna JIBER	Head of Department at the Ministry of Equipment and Water - Morocco	
3:35 PM	3:50 PM	00:15	Mastery of data for better management and maintenance of the roadway and motorway bridges	Bensaid Mohammed Taha / Elmoukni Abdesslam	Head of Pavement Maitenance/Head of Maintenance Planning and Management - ADM - Morocco	
3:50 PM	4:10 PM	00:20	Q & A			
4:10 PM	4:15 PM	00:05	Session conclusions from the chair of the session			

4:15 - 4:30 PM	Tea / Coffee break
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THURSDAY, MAY 11, 2023

4:30 - 6:00 PM			ROUND TABLE 1 Challenges and Opportunities for Low and Middle Income Countries LMIC for innovation in safe and sustainable infrastructure		
		И 01:30	Introduction & moderation	Kaouther Matcha	French Secretary of TC 2.4 - Tunisia
			Mohamed Quachar	Director of Studies,	Development and Road Research - Morocco
4:30 PM	6:00 PM		Mohamed Zmerli	Service Head- Ministry	of Equipment and Housing & member TC 2.4 -
4.30 PM	0.00 PIVI		Valentina Galasso	Director at Del	oitte Consulting & Chair of TC 2.4 - Italy
			Chouh Mohamad	Director of Development - ADM - Morocco	
			Session conclus	sions from the chair of th	e round table

FRIDAY, MAY 12, 2023

9:30 - 11:00 AM			SESSION 4 The role of road operators in the development of MaaS			
9:30 AM	9:35 AM	00:05	Introduction & moderation	Valentina Galasso	Director at Deloitte Consulting & Chair of TC 2.4 - Italy	
9:35 AM	9:50 AM	00:15	SILA/ Smart Mobility Ecosystem, including the SaaS solution for multimodal transport	Nabil Moussaria	Director of the Strategy and Development Department of Geomatic - Morocco	
9:50 AM	10:05 AM	00:15	UK FutureTransport Zones and MaaS solutions	James Elliott	English Secretary of TC 2.4 - UK	
10:05 AM	10:20 AM	00:15	General thoughts on MaaS inspired by Canada- Quebec case studies	Yan St-Yves	Director of scientifical equipment and ITS - Infrastructure & WG Leader of TC 2.4 - Canada Québec	
10:20 AM	10:35 AM	00:15	Presentation of the National Mobility Study	Taib BENSSIED	Director of the Transportation Department - CID - Morocco	
10:35 AM	10:55 AM	00:20	Q & A			
10:55 AM	11:00 AM	00:05	Session conclusions from the chair of the Session			

11:00 - 11:30 AM Tea / Coffee break

11:30 AM - 1:00 PM			SESSION 5 Delivering safer, more sustainable roads through smart infrastructure		
11:30 AM	11:35 AM	00:05	Introduction & moderation	Martin Margreiter	Head of Research Group Automated Traffic at TUM / Partner at Mobility Partners & member of TC 2.4 - Germany
11:35 AM	11:50 AM	00:15	Innovation at the service of sustainable mobility	Mounia ESSEKELLI	Mobility Expert - Morocco
11:50 AM	12:05 PM	00:15	Green Strategy for Norway	Arve Kirkevold	Member of TC 2.4 - Norway
12:05 PM	12:20 PM	00:15	Smart Roads of Italy - Develop safer roads and smart infrastructure	Luigi Carrarini	Head of Centre of Excellence for Smart Road and Structure Health Monitoring at ANAS & Member of TC 2.4 - Italy
12:20 PM	12:35 PM	00:15	Fifth Generation Roads: Smart Road	Bouchaib SAFIR	President of AMR - Morocco
12:35 PM	12:55 PM	00:20	Q&A		
12:55 PM	1:00 PM	00:05	Session conclusions from MarMartin Margreiter as Chair of the Session		

1:00 - 3:00 PM Lunch

3:00 - 4:30 PM			SESSION 6 The role of BIG Data to improve road network operations and user mobility				
3:00 PM	3:05 PM	00:05	Introduction & moderation	James Elliott	English Secretary of TC 2.4 - UK		
3:05 PM	3:20 PM	00:15	Use of Big Data in the development of Al models for vehicle classification and route reconstruction	Ouahmane Rachid	Head of Toll Digitalization and Traffic Info Management ADM - Morocco		
3:20 PM	3:35 PM	00:15	ITS experience from USA	Galen Mc Gill	WG Leader of TC 2.4 - USA		
3:35 PM	3:50 PM	00:15	ANAS Digital Mobility Lab: Innovation and new technologies to improve RNO	Daniela De Nigris	Head of Digital Mobility Lab at ANAS & member of TC 2.4 - Italy		
3:50 PM	4:05 PM	00:15	The modernization of transport infrastructure based on the IoT (Internet of Things). Deployment to manage variable demand and various field environment conditions	Mohamed El Saadani	PE Infinidium & Traffic Technology Director - USA		
4:05 PM	4:25 PM	00:20	Q&A				
4:25 PM	4:30 PM	00:05	Session conclusions from James Elliott as Chair of the Session				

4:30 - 5:00 PM Tea / Coffee break

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FRIDAY, MAY 12, 2023

5:00 - 6:00 PM			Actions to improve the safe	ROUND TABLE 2 and sustainable o	eperation of the road network
		0 PM 01:00	Introduction & moderation	El Ouard Ahmed	Consultant - Morocco
	6:00 PM		Anouar Benazzouz	General Manager of the National Company of Motorways of Morocco - AD	
			Abdelkebir El Alouaoui	Directo	r of Road Works and Operation - Morocco
5:00 PM			Bennacer Boulaajoul		Director of NARSA - Morocco
			Arve Kirkevold		Member of TC 2.4 - Norway
			Mohamed El Saadani	PE Infin	idium & Traffic Technology Director - USA
			Session concl	usions from the chair	of the round table

6:00 - 6	6:30 PM		Closing		
6:00 PM	6:10 PM	00:10	Closing speech from Morocco	Abdellah ISMAILI	The first delegate of AMPCR - Morocco
6:10 PM	6:20 PM	00:10	Conclusion from Morocco	Soumia Jannan	Member of TC 2.4 - Morocco
6:20 PM	6:30 PM	00:10	Conclusions from TC2.4 chair	Valentina Galasso	Director at Deloitte Consulting & Chair of TC 2.4 - Italy



SATURDAY, MAY 13, 2023

	TECHNICAL VISIT
9:00 AM - 2:00 PM	

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Rabat 11-13 May, 2023



8. ORGANIZING COMMITTEE

TECHNICAL COMMITTEE 2.4

- Valentina Galasso (Italy) The chair of TC 2.4
- James Elliott (United Kingdom) The English Secretary of TC 2.4
- Kaouther Machta (Tunisia) The French Secretary of TC 2.4
- Soumia Jannan (Morocco) Moroccan delegate of TC 2.4
- Sylvain Belloche (France) French delegate of TC 2.4

GENERAL SECRETARIAT

- Miguel Caso Flórez (Spain) PIARC Technical Director
- **Jeayoun Kim** (South Korea) PIARC Technical Advisor

MINISTRY OF EQUIPMENT AND WATER / THE PERMANENT MOROCCAN ASSOCIATION **OF ROAD CONGRESSES**

• Khalid Abdellaoui (Morocco) **Deputy Director of Roads**

• Abdelkebir El Alouaoui (Morocco)

Director of Works and Road Operations

• Said El Karkouri (Morocco)

Director of the National Center of Road Studies and Research, **PMARC Secretary**

• Omar Essekeli (Morocco)

Head of the Road Works and Maintenance Division, Member of the executive office of PMARC

• Larbi Fahim (Morocco)

Head of the Financial and Administrative Affairs Division, **PMARC** Treasurer

• Mohamed Hamdi (Morocco)

Head of Road Viability and Operations Division

• Samira Haddi (Morocco)

Head of the Communication and Information Management Division

• Houda Taibi (Morocco)

Chief of the Road Technical Organization and Standardization Service

• Brahim Besbas (Morocco)

PMARC Secretariat



RABAT

CITY OF LIGHTS



Innovative road operation concepts, for safe and sustainable mobility





9. REGISTRATION FEES

The registration fees to attend the different activities of the Seminar are listed below:

- Moroccan participants: 2 000 Dh /person.
- Participants from low and middle income countries: 200 € /person.
- Participants from other countries: 350 € /person.

The registration fee covers participation in the Seminar, coffee breaks and lunches during the three days.

They do not cover accommodation and transportation costs.

The number of places is limited. The organizing committee may refuse applications when the limited number of places is reached.



A sumptuous gala dinner will be held in conjunction with the seminar and will provide an excellent networking opportunity.

- Moroccan guests: 600 Dh /person.
- Guests from low and middle income countries: 60 € /person.
- Guests from other countries: 100 € /person.

The gala dinner will take place on May 12 at 8 p.m. at the Reception and Conference Center in Rabat.



11. PAYMENT TERMS

Payment of registration fees can be made by bank transfer to the AMPCR account or by cheque made out to AMPCR.

The supporting documents for the transfer or the cheque for payment should be sent to the AMPCR Secretariat.

Details for bank transfer

 Name of Beneficiary: **AMPCR**

• Bank: **SOCIETE GENERALE Agence Rabat, Souissi - Maroc**

• Bank details: 022 810 000 150 00 062175 28 23

• BIC / SWIFT: **SGMBMAMC**

• IBAN: MA 64 022 810 000 150 0006217528 23

For more information please contact:

AMPCR Secretariat

National Center of Road Studies and Research B.P 6219 Rabat-Instituts, Hay Riad Rabat Maroc Tel.: +212 (0) 6 56 69 95 15/16 Fax: +212 (0) 5 37 71 44 48

E-mail: ampcr2022@gmail.com Website: www.ampcr.ma

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12. REGISTRATION FORM

If you are interested in participating in the PIARC International Seminar on Innovative Road Operation Concepts, for Safe and Sustainable Mobility, please fill in the form below and send it by mail or fax to:

AMPCR Secretariat National Center of Road Studies and Research B.P 6219 Rabat- Instituts, Hay Riad Rabat Maroc Tel.: +212 (0) 6 56 69 95 15/16 Fax: +212 (0) 5 37 71 44 48 E-mail: ampcr2022@gmail.com

	Last name: Fir	st name:		
	Title:			
	Organization:		Country:	
	Address:			
	City:	Phone :		
	E-mail :	Fax :		
I enclose with this form a proof of bank transfer or a cheque made out to AMPCR for an amount of				
☐ Gala d				

Date and signature

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13. GENERAL INFORMATION



The seminar will be held at the Reception and Conference Center in Rabat, located at Avenue Essanaoubar in Hay Riad, Rabat.



The weather in Rabat is very pleasant in May. One can expect temperatures between 18 and 24°C, which offers the opportunity to have an excellent stay.



The list of hotels mentioned in the following page, offer a preferential price to seminar participants.

To take advantage of the preferential prices, you need to communicate the following code CAC MAROC when booking, preferably by email or by phone.



Following the decision of the Moroccan authorities, the passenger's health card is no longer required for entry into Moroccan territory.



The Kingdom of Morocco has set up a procedure for granting an electronic visa "eVisa" via the platform www.acces-maroc.ma, to foreign nationals that require this.

To check your eliqibility for a visa to enter Morocco, please visit https://www.acces-maroc.ma/.

The organizing committee is willing to provide an invitation letter if needed to all participants. Please feel free to request it by email from the AMPCR secretariat at the following address: ampcr2022@gmail.com.



The city of Rabat is served by several means of transportation:

• **Plane** through the airport Rabat-Salé: the transfer from the airport to the city center is provided by taxis 24/7 and a bus that connects the airport to downtown.

Participants can also go through Casablanca airport, which is served by a fast train at terminal 1, connecting it to the capital Rabat. A change of train is usually made at the Casa Port station or at the Casa Ain Sbaa station.

• **Train** through two ONCF railway stations in the city: Rabat city and Rabat Agdal. They allow the connection to the airport Mohammed 5 of Casablanca.

Tickets can be booked online at: https://www.oncf-voyages.ma/.

Transportation within Rabat is provided by streetcar, bus and cab at affordable prices.

To get to the Welcome and Conference Center in Hay Ryad in Rabat, participants can take a taxi, a bus (line 6) or a streetcar (line 1 to Madinat Al Irfane) and then take a taxi.

For more information on the streetcar lines, visit: https://www.tram-way.ma/.

For more information on buses in Rabat, visit: https://www.alsacitybusrst.ma/.

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14. ACCOMMODATION

















SOFITEL RABAT JARDIN DES ROSES 5*

Contact: Mme Naoual ZIROILI +212 (0) 6 14 99 99 08

E-mail: naoual.ziroili@sofitel.accor.com

Website: all.accor.com/fr/city/hotels-rabat-v4871.shtml

RABAT 5*

Contact: Mme Meryem BEN MARZOUK +212 (0) 6 19 37 96 32

E-mail: commercial@hotelrabat.ma **Website:** www.hotelrabat.ma

THE VIEW 5*

Contact: M. El Mehdi KHALDI +212 (0) 6 42 36 65 88

E-mail: sales2@theviewhotels.com **Website:** www.theviewhotelrabat.com

BÉLÈRE 4*

Contact: Mme Hafsa AGROUM +212 (0) 5 37 20 33 02

E-mail : reservations@belere-hotels.com **Website :** www.belere-hotels.com

DIWAN 4*

Contact : Mme Safaa KARRAKCHOU +212 (0) 6 94 77 51 08

E-mail: safaa.karrakchou@acoor.com

Website: all.accor.com/fr/city/hotels-rabat-v4871.shtml

ATLANTIC 4*

Contact: M. HAJJI +212 (0) 6 76 89 99 10

E-mail : info@atlanticagdal.com **Website :** www.atlanticagdal.com

SOUNDOUSS 4*

Contact: Mme Basma BENLASRI +212 (0) 5 37 27 88 88

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IBIS 3*

Contact: M. Nabil BOURAISSI +212 [0] 6 60 14 70 84

E-mail: nabil.bouraissi@accor.com

Website: all.accor.com/fr/city/hotels-rabat-v4871.shtml